PORTAL

USPTO

Search: ○ The ACM Digital Library ● The Guide

THE GUIDE TO COMPUTING LITERATURE

Feedback

NEW! Take a look at the new version of this page: [beta version]. Tell us what you think.

Robust Hyperlinks Cost Just Five Words Each

Source	Technical Report: CSD-00-1091 Year of Publication: 2000
Authors	Thomas A. Phelps Robert Wilensky
Publisher	University of California at Berkeley Berkeley, CA, USA
Bibliometrics	Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 6

Additional Information: abstract cited by collaborative colleagues

Tools and Actions: Review this Technical Report

Save this Technical Report to a Binder   Display Formats: BibTeX EndNote ACM
Ref

↑ ABSTRACT

We propose robust hyperlinks as a solution to the problem of broken hyperlinks. A robust hyperlink is
a URL augmented with a small "signature", computed from the referenced document. The signature
can be submitted as a query to web search engines to locate the document. It turns out that very
small signatures are sufficient to readily locate individual documents out of the many millions on the
web. Robust hyperlinks exhibit a number of desirable qualities: They can be computed and exploited
automatically, are small and cheap to compute (so that it is practical to make all hyperlinks robust),
do not require new server or infrastructure support, can be rolled out reasonably well in the existing
URL syntax, can be used to automatically retrofit existing links to make them robust, and are easy to
understand. In particular, one can start using robust hyperlinks now, as servers and web pages are
mostly compatible as is, while clients can increase their support in the future. Robust hyperlinks are
one example of using the web to bootstrap new features onto itself. PLEASE NOTE: a hypertext
version of this paper is available at http://HTTP.CS.Berkeley.EDU/~wilensky/robust-hyperlinks.html

↑ CITED BY 6

Steve Lawrence , Frans Coetzee , Eric Glover , Gary Flake , David Pennock , Bob Krovetz , Finn
Nielsen , Andries Kruger , Lee Giles, Persistence of information on the web: analyzing citations
contained in research articles, Proceedings of the ninth international conference on Information
and knowledge management, p.235-242, November 06-11, 2000, McLean, Virginia, United States

Steve Lawrence , David M. Pennock , Gary William Flake , Robert Krovetz , Frans M. Coetzee , Eric

Glover , Finn Årup Nielsen , Andries Kruger , C. Lee Giles, Persistence of Web References in
Scientific Research, Computer, v.34 n.2, p.26-31, February 2001

Seung-Taek Park , David M. Pennock , C. Lee Giles , Robert Krovetz, Analysis of lexical signatures
for improving information persistence on the World Wide Web, ACM Transactions on Information
Systems (TOIS), v.22 n.4, p.540-572, October 2004

Terry L. Harrison , Michael L. Nelson, Just-in-time recovery of missing web pages, Proceedings of
the seventeenth conference on Hypertext and hypermedia, August 22-25, 2006, Odense, Denmark

Maria Halkidi , Benjamin Nguyen , Iraklis Varlamis , Michalis Vazirgiannis, THESUS: Organizing
Web document collections based on link semantics, The VLDB Journal — The International Journal
on Very Large Data Bases, v.12 n.4, p.320-332, November 2003

Darris Hupp , Robert C. Miller, Smart bookmarks: automatic retroactive macro recording on the
web, Proceedings of the 20th annual ACM symposium on User interface software and technology,
October 07-10, 2007, Newport, Rhode Island, USA

↑ **Collaborative Colleagues:**
   Thomas A. Phelps: colleagues
   Robert Wilensky: colleagues